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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/019,954	05/24/2002	Eric Samain	065691-0267	6242
	7590 01/31/2007 LARDNER LLP		EXAM	INER
SUITE 500	TNU		PROUTY, REBECCA E	
3000 K STREET NW WASHINGTON, DC 20007			ART UNIT	PAPER NUMBER
			1652	
			MAIL DATE	DELIVERY MODE
			01/31/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/019,954	SAMAIN ET AL.	
Examiner	Art Unit	
Rebecca E. Prouty	1652	

-	Rebecca E. Prouty	1652	
The MAILING DATE of this communication appe	ars on the cover sheet with the c	orrespondence add	ress
THE REPLY FILED <u>28 December 2006</u> FAILS TO PLACE THIS	S APPLICATION IN CONDITION FO	OR ALLOWANCE.	
1. The reply was filed after a final rejection, but prior to filing must timely file one of the following replies: (1) an amend condition for allowance; (2) a Notice of Appeal (with appe Examination (RCE) in compliance with 37 CFR 1.114. Th	a Notice of Appeal. To avoid aban ment, affidavit, or other evidence, v al fee) in compliance with 37 CFR of e reply must be filed within one of t	donment of this appli which places the appl 41.31; or (3) a Reque	ication in st for Continued
 a)	Advisory Action, or (2) the date set forth ater than SIX MONTHS from the mailing	g date of the final rejecti	on.
TWO MONTHS OF THE FINAL REJECTION. See MPEP 7 Extensions of time may be obtained under 37 CFR 1.136(a). The date have been filed is the date for purposes of determining the period of exunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office late may reduce any earned patent term adjustment. See 37 CFR 1.704(b)	06.07(f). on which the petition under 37 CFR 1.1 tension and the corresponding amount shortened statutory period for reply origing than three months after the mailing da	36(a) and the appropria of the fee. The appropr inally set in the final Offi	te extension fee iate extension fee ce action; or (2) as
NOTICE OF APPEAL 2. The reply was filed after the date of filing a Notice of App was filed on A brief in compliance with 37 CFR 4 Appeal (37 CFR 41.37(a)), or any extension thereof (37 Chas been filed, any reply must be filed within the time per	1.37 must be filed within two month CFR 41.37(e)), to avoid dismissal of	s of the date of filing	the Notice of
<u>AMENDMENTS</u>		90 44 4	
 The proposed amendment(s) filed after a final rejection, if (a) They raise new issues that would require further or (b) They raise the issue of new matter (see NOTE below). 	onsideration and/or search (see NC	will <u>not</u> be entered be TE below);	ecause
(c) They are not deemed to place the application in be appeal; and/or	etter form for appeal by materially re	educing or simplifying	the issues for
(d) They present additional claims without canceling a NOTE: (See 37 CFR 1.116 and 41.33(a)).		jected claims.	
4. The amendments are not in compliance with 37 CFR 1.1		moliant Amendment	(PTOL-324).
5. Applicant's reply has overcome the following rejection(s)	:		
 Newly proposed or amended claim(s) would be al non-allowable claim(s). 			
7. For purposes of appeal, the proposed amendment(s): a) the new or amended claims would be rejected is provided The status of the claim(s) is (or will be) as follows: Claim(s) allowed:		e entered and an exp	lanation of how
Claim(s) objected to: Claim(s) rejected: <u>1,2,5-13,18-20,26-28,30 and 39</u> . Claim(s) withdrawn from consideration: <u>15-17,21-24,29,3</u>	21. 38 and 40.46		
AFFIDAVIT OR OTHER EVIDENCE	11-36 and 40-40.		
 The affidavit or other evidence filed after a final action, be because applicant failed to provide a showing of good ar was not earlier presented. See 37 CFR 1.116(e). 	nd sufficient reasons why the affidat	vit or other evidence i	s necessary and
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to showing a good and sufficient reasons why it is necessar	overcome <u>all</u> rejections under appe ry and was not earlier presented. S	al and/or appellant fa See 37 CFR 41.33(d)(ils to provide a 1).
 The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER 	on of the status of the claims after e	ntry is below or attac	hed.
 The request for reconsideration has been considered be see attached. 	ut does NOT place the application i	n condition for allowa	nce because:
12. Note the attached Information Disclosure Statement(s). 13. Other:	(PTO/SB/08 or PTO-1449) Paper N	No(s)	
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Application/Control Number: 10/019,954

Art Unit: 1652

Applicants argue that the amendments to the claims to limit the cells to E. coli and the oligosaccharide of interest to an oligosaccharide comprising lactose should overcome the previous 112, first paragraph rejections for lack of sufficient written description. However, the amendments to the claims do not change the fact that the claims still recite the production of an enormous number of varied oligosaccharides each of which require distinctly different sets of genes and requires detailed knowledge of the biosynthetic pathways for the synthesis of the desired oligosaccharide, knowledge of the source of all enzymes necessary for such synthesis, knowledge of the metabolic/catabolic pathways present in E. coli which would impact on the synthesis/degradation of the desired oligosaccharide and detailed knowledge of how these factors are interrelated such that one obtains the desired result. the reasons previously presented, the instant disclosure is insufficient.

Applicants argue that the 103 rejections should be withdrawn as one of skill in the art would have no motivation to combine Bettler and Kozumi, much less any expectation of success as it was known in the art that rapid uptake of sugars by lactose permease disrupts membrane function, possibly by causing collapse of the membrane potential and results in growth

Application/Control Number: 10/019,954

Art Unit: 1652

inhibition and eventually cell death. Applicants argue that according to the claimed method, the cells can be grown on glucose or glycerol, and since their lactose permease is induced by IPTG, they should be killed by lactose. However, this is not persuasive because there is no requirement in the claims that the level of lactose permease induction is sufficiently high to cause cell death. The disclosure of Dykhuizen et al. makes it clear that there is a strong correlation between the amount of lactose permease and the amount of lactose killing (see pg 878). As such a skilled artisan would merely have found it obvious to simply allow the cells to grow in the absence of inducer until a desired cell density is achieved and then add the inducer only during the oligosaccharide synthesis step and to keep the amount of inducer low such that lactose killing would be avoided.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rebecca E. Prouty whose telephone number is 571-272-0937. The examiner can normally be reached on Tuesday-Friday from 8 AM to 5 PM. The examiner can also be reached on alternate Mondays

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapura Achutamurthy, can be reached at (571) 272-0928. The fax phone number for this Group is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system,

Application/Control Number: 10/019,954

Art Unit: 1652

Page 4

see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rebecca Prouty Primary Examiner Art Unit 1652